What is claimed is:

1.   An automatic software component creating system comprising:

       a software component definition data storage section which stores software component definition
5 data therein;

       a software component creation rule storage section which stores software component creation rules therein;

       a client program creation rule storage section
10 which stores client program creation rules therein;

       a software component creating section which creates a software component module with one or more software components based on said software component definition data and said software component creation
15 rules in response to a start instruction; and

       a client program creating section which creates a client program source code based on said software component definition data, said software component module, and said client program creation rules, when
20 said software component module is created.

2.   The automatic software component creating system according to claim 1, wherein said software component definition data includes one module data which includes at least one component data, which
5 includes at least one method data, which includes at

least one parameter data.

3.   The automatic software component creating
system according to claim 2, wherein said module data
has a module name,

        said component data has component data and
5 component attribute data,

        said method data has a method name, method
attribute data, method call format data, and method
call order data, and

        said parameter data has a parameter name, a
10 parameter type, and a parameter type data.

4.   The automatic software component creating
system according to claim 2, further comprising:

        a software component defining section which
defines said software component definition data from
5 inputted data to store in said software component
definition data storage section.

5.   The automatic software component creating
system according to claim 4, wherein said software
component defining section comprises:

        a component data defining section which
5 defines said component data associated with said
module data from said inputted data;

        a method data defining section which defines

said method data associated with said component data

from said inputted data; and

10   a parameter data defining section which defines

said parameter data associated with the method data

from said inputted data.

6.   The automatic software component creating

system according to claim 1, wherein said software

component creating section comprises:

        a parameter creating section which creates

5 parameter(s) from said software component definition

data and parameter creation rules in response to a

parameter creation request;

        a method creating section which generates said

parameter creation request which creating method(s)

10 from said software component definition data and

method creation rules in response to a method creation

request;

        a component creating section which generates

said method creation request while creating

15 component(s) from software component definition data

and component creation rules in response to a

component creation request; and

        a module creating section which generates said

component creation request while creating said

20 software component module from said software component

definition data and module creation rules.

7.   The automatic software component creating

system according to claim 6, wherein said software

component creation rules comprises:

        said module creation rules, in each of which a

5   rule for creation of a project file of said module is

described;

        said component creation rules including

component framework creation rules in each of which a

rule for creation of a framework of said component is

10   described, property creation rules in each of which a

rule for creation of property of said component is

described, and initial value creating rules, in each

of which initial values to be set in said property are

described;

15   said method creation rules including method

framework creation rules in each of which a rule for

creation of a framework of said method is described,

and method logic creation rules in each of which logic

to be executed by said method is described; and

20   said parameter creation rules in each of which

it is described that a parameter name and a type of

parameter are linked.

8.   The automatic software component creating

system according to claim 1, wherein said client

program source code creating section comprises:

        a parameter definition creating section which

5   creates declaration and definition of each of said

parameters corresponding to a method to be called from

a client program from said software component

definition data and parameter definition creation

rules of said client program creation rules in

10   response to a parameter definition creation request;

a pre-process creating section which creates a

pre-process which needs to be executed prior to a call

of said software component based on said software

component definition data and pre-process creation

15   rules of said client program creation rules in

response to a pre-process creation request;

a component call creating section which creates

a call process of each of said methods of said

software component based on said software component

20   definition data and component call creation rules of

said client program creation rules in response to a

component call creation request; and

a post-process creating section which creates a

post-process, which needs to be executed after the

25   call of said software component based on said software

component definition data and post-process creation

rules of said client program creation rules in

response to a post-process creation request; and

a client module creating section which creates

30   a framework of said client program source code based

on said software component definition data and client

module creation rules of said client program creation

rules while respectively outputting said parameter

definition creation request, said pre-process creation

35 request, said component call creation request and said

post-process creation request to said parameter

definition creating section, said pre-process creating

section, said component call creating section, and

said post-process creating section.

9.   An automatic software component creating method

comprising the steps of:

(a) creating a software component module with

one or more software components based on software

5 component definition data and software component

creation rules in response to a start instruction; and

(b) creating a client program source code based

on said software component definition data, said

software component module, and client program creation

10 rules, when said software component module is created.

10.   The automatic software component creating

method according to claim 9, wherein said software

component definition data includes one module data

which includes at least one component data, which

5 includes at least one method data, which includes at

least one parameter data.

11.   The automatic software component creating

method according to claim 10, wherein said module data

has a module name,

said component data has component data and

5 component attribute data,

said method data has a method name, method

attribute data, method call format data, and method

call order data, and

said parameter data has a parameter name, a

10 parameter type, and a parameter type data.

12.   The automatic software component creating

method according to claim 10, further comprising the

step of:

(c) defining said software component definition

5 data from inputted data.

13.   The automatic software component creating

method according to claim 12, wherein said (c)

defining step comprises the steps of:

defining said component data associated with

5 said module data from said inputted data;

defining said method data associated with said

component data from said inputted data; and

defining said parameter data associated with

the method data from said inputted data.

14.   The automatic software component creating

method according to claim 9, wherein said (a) creating

step comprises the steps of:

       (d) generating a component creation request

 5 while creating said software component module from

said software component definition data and module

creation rules of said software component creation

rules;

       (e) generating a method creation request while

10 creating component(s) from software component

definition data and component creation rules of said

software component creation rules in response to said

component creation request;

       (f) generating a parameter creation request

15 which creating method(s) from said software component

definition data and method creation rules of said

software component creation rules in response to said

method creation request; and

       (g) creating parameter(s) from said software

20 component definition data and parameter creation rules

in response to said parameter creation request.

15.   The automatic software component creating

method according to claim 9, wherein said (b) creating

step comprises the steps of:

       (h) creating declaration and definition of each

 5 of said parameters corresponding to the method to be

called from a client program from said software

component definition data and parameter definition

creation rules of said client program creation rules

in response to a parameter definition creation

10   request;

(i) creating a pre-process which needs to be

executed prior to a call of said software component

based on said software component definition data and

pre-process creation rules of said client program

15   creation rules in response to a pre-process creation

request;

(j) creating a call process of each of said

methods of said software component based on said

software component definition data and component call

20   creation rules of said client program creation rules

in response to a component call creation request; and

(k) creating a post-process, which needs to be

executed after the call of said software component

based on said software component definition data and

25   post-process creation rules of said client program

creation rules in response to a post-process creation

request; and

(l) creating a framework of said client program

source code based on said software component

30   definition data and client module creation rules of

said client program creation rules while generating

said parameter definition creation request, said pre-

process creation request, said component call creation
request and said post-process creation request.